

## RECEIVED APR 0 9 2003 TECH CENTER 1600/2900

Human caspase-12 Human caspase-5 Human caspase-13a conserved amino acidsb Mouse Human caspase-4 Mouse caspase-ll Human caspase-1 caspase-12

MFKG1LQSGLDNFV1NHMLKNNVAGQTS1QTLVPNTDQKSTSVKKDNHKKKTVKMLEYLG

----- MAEDKHNKNPLKMLESLG

--- MAEGNHRKKPLKVLESLG

---- MADKVLKEKRKLFIRSMG

----- MAARRTHERDPIYKIKGLA

MAENKHPDKPLKVLEQLG

:

VHMVKLLI

Human caspase-1 Human Human caspase-13ª caspase-4

Human caspase-5 Mouse caspase-11 Mouse Human caspase-12 caspase-12

KDVLHGVFNYLAKHDVLTLKEEEKKKYYDAKIEDKALILVDSLR-KNRVAHQMFTQTLLN

KDFLTGVLDNLVEQNVLNWKEEEKKKYYDAKTEDKVRVMADSMQEKQRMAGQMLLQTFFN KELISGLLDDFVEKNVLKLEEEEKKKIYDAKLQDKARVLVDSIRQKNQEAGQVFVQTFLN

KEVLTEYLEKLVQSNVLKLKEEDKQKFNNAERSDKRWVFVDAMKKKHSKVGEMLLQTFFS KDMLDGVFDDLVEKNVLNGDELLKI GESASFI LNKAENLVENFLEKTDMAGKI FAGHIAN KTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVDDITETAQIAGKIFREHLWN

.. .. .. ..

EGTINGLLDELLQTRVLNKEEMEKVKRENATVMDKTRALIDSVIPKGAQACQICITYICE

conserved amino acidsb

Human caspase-1 Human

EDSYLAGTLGLSADQ-----TSGNYLNMQDSQGVLSSFPAPQAVQDN-----PAMPTS

ID-----PPESG-

-----QKI----TSVKPLLQIEAG-----PPESA-

----KNS----TSIKAPEETVAG-----PDESV-

Human Human caspase-13<sup>a</sup> caspase~5 caspase-12 caspase-4

conserved amino acidsb

Mouse Human

caspase-12

Human Human caspase-1 caspase-13ª

Mouse caspase-11 Mouse caspase-12

conserved amino acidsb

Mouse caspase-11

Human Human Human caspase-12 caspase-5 caspase-4

SQEQLSLQFSNDEDDGPQKICTPSSPSESKRKVEDDEMEVNAGLAHESHLMLTAPHGLQS

----PGS----HHGEANLEMEE-----PEE---

SKKQLS-----

ESTNILKLCPREEFLRLCKKNHDEIYPIKKREDRRRLALIICNTKFDHLPARNGAHYDI GSAATLKLCPHEEFLKLCKERAGEIYPIKERKDRTRLALIICNTEFDHMPPRNGAALDJ ESTDALKLCPHEEFLRLCKERAEEIYPIKERNNRTRLALIICNTEFDHLPPRNGADFDI

SGSEGNVKLCSLEEAQRIWKQKSAEIYPIMDKSSRTRLALIICNEEFDSIPRRTGAEVDI

SEVQDTLKLCPRDQFCKIKTERAKEIYPVMEKEGRTRLALIICNKKFDYLFDRDNADTDI SLNTLKLCSPEEFTRLCREKTQEIYPIKEANGRTRKALIICNTEFKHLSLRYGAKFDI ----- QIYPVMEKERRTCLASNIRNKEFNYLHNRNGSELDI

FIGURE 1A

encentración de seculator, procesar recommente d	The state of the s	CSYLTSMAN
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AND COLUMN DISTRA		



conserved amino acidsb Mouse Human Human caspase-13ª Human caspase-1 Human Human caspase-11 caspase-12 caspase-12 caspase-5 caspase-4

conserved amino acidsb Mouse caspase-11 Mouse Human caspase-13ª Human Human Human caspase-4 Human caspase-1 caspase-12 caspase-5 caspase-12

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conserved amino acidsb Mouse Mouse Human Human Human Human Human caspase-1 caspase-11 caspase-12 caspas e-13ª caspase-5 caspase-4 caspase-12

conserved amino acidsb Mouse Mouse Human Human Human Human Human caspase-11 caspas e-13ª caspas e-1 caspase-5 caspase-12 caspase-12 caspase-4

> ${ t TGMKELLEGLDY}$   ${ t SVDVEENLTARD}$   ${ t MESALRAFATRPEHKSSDSTFLVLMSHGILEGICGT}$ LGMKQLLEGLGY TVEVEEKLTARD MESVLWKFAARE EHKSSDSTFLVF MSHGILDGICGT LNMQELLENLGY SVVLKENLTAQE METELMQFAGRP EHQSSDSTFLVF MSHGILEGICGV VGMKRLLQGLGY TVVDEKNLTARD MESVLRAFAARP EHKSSDSTFLVL MSHGILEGICGT TGMTMLLQNLGY SVDVKKNLTASD MTTELEAFAHRP EHKTSDSTFLVF MSHGIREGICGK LGMXDLLENLGY SVGIKENLTAQE METALRQFAAHP EHQSSDSTFLVV MSHSILNGICGT IGMKGLLEDLGY DVVVKEELTAEG MESEMKDFAALS EHQTSDSTFLVL MSHGTLHGICGT \*\* \* \*\*\* \*\*\*\*\*\* \*\*\* . \* \*

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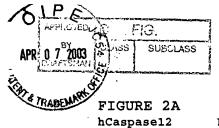
MHSEKTPDVLQY DTIYQIFNNCHC PGLRDKPKVIIV QACRGGNSGEMW IRESSK-PQLCR MHSEEEPDVLPY DTIFRTFNNRNC LSLKDKPKVIIV QACRGANRGELW VSDSPP-ALADS KHSEQVPDILQLNAIFNMLNTKNC PSLKDKPKVIII QACRGDSPGVVW FKDSVG-VSGNL KHRNKKPDVLHD DTIFKIFNNSNC RSLRNKPKILIM QACRGRYNGTIW VSTNKGIATADT KHWDQEPDVLHD DTIFEIFNNRNC QSLKDKPKVIIM QACRGNGAGIVW FTTDSGKASADT AHKKKKPDVLLY DTI FQI FNNRNC LSLKDKPKVI I V QACRGEKHGELW VRDSPA-SLAV I VHDEKKPDVLLY DTI FQI FNNRNC LSLKDKPKVI I V QACRGANRGELW VRDSPA - SLEVA

GVD-LPRNMEAD AVKLSHVEKDFI AFYSTTPHHLSY RDKTGGSYFITR LISCFRKHACSC HGRLLQGNICND AVTKAHVEKDFI AFKSSTPR----SSQ-SSENLEAD SVCKIHEEKDFI AFCSSTPHNVSWRDRTRGSIFITE LITCFQKYSCCC SSQ-SSENLEED AVYKTHVEKDFI AFCSSTPHNVSW RDSTMGSIFITQ LITCFQKYSWCC FSQ-SSENLEED AVYKTHVEKDFI AFCSSTPHNVSWRDIKKGSLFITR LITCFQKYAWCC SLP-TTEEFEDD AIKKAHIEKDFI AFCSSTPDNVSWRHPTMGSVFIGR LIEHMQEYACSC DEERVLSCKWNN SITKAHVETDFI AFKSSTPHNISW KVGKTGSLFISK LIDCFKKYCWCY :: :: \* \* \*\*\*\* \* \*\*

HLMEIFRKVQKS FEVPQAKAQMPT IERATLTRDFYL FPGN DVEEIFRKVRFS FEQPDGRAQMPT TERVTLTRCFYL FPGH HLEEVFRKVQQS FETPRAKAQMPT IERLSMTRYFYL FPGN HLEEVFRKVQQS FEKPNVKAQMPT VERLSMTRYFYL FPGN HLFDIFLKVQQS FEKASIHSQMPT IDRATLTRYFYL FPGN HLEEIFRKVQHS FEVPGELTQMPT IERVSMTRYFYL FPGN ----SHS FETPNILTQLPT TERLSMTRYFYL FPGN 

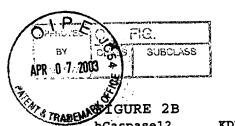
FIGURE 1B

NAMOTERAC SSAJOEUS SH CHADHRA



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hCaspase12	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD
KW-Ap	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD
KW-Bp	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAE-LVD
KW-Cp	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD
KW-Dp	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD
KW-Ep	
KW-Fp	
KW-Hp	
KW-Gp	
KW-Ip	
- KW-Jp	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD
KW-Kp	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD
ico icp	PABLACIONOVILVIA VICIDIA IL ILIANI VILA TELLI DI CACCIALI VICIALI ALCONICAZIONE
hCaspase12	DITETAQIAGKIFREHLWNSKKQLSSALLEIQGAQPSGKLKLCPHAHFHELKTKRADEIY
KW-Ap	DITETAQIAGKIFREHLWNSKKQLSSDISSDGEREANMPG
KW-Bp	DITETAQIAGKIFREHLWNSKKQLSSDISSDGEREANMPG
KW-Cp	DITETAQIAGKIFREHLWNSKKQLSSDISSDGEREANMPG
KW-Dp	DITETAQIAGKIFREHLWNSKKQLSSDISSDGEREANMPG
KW-Ep	PSGKLKLCPHAHFHELKTKRADEIY
	AQPSGKLKLCPHAHFHELKTKRADEIY
KW-Fp	A ODGGER M. GDUNGERE MENDADETA
KW-Hp	AQPSGKLKLCPHAHFHELKTKRADEIY
KW-Gp	AQPSGKLKLCPHAHFHELKTKRADEIY
KW-Ip	AQPSGKLKLCPHAHFHELKTKRADEIY
KW-Jp	DITETAQIAGKIFREHLWNSKKQLSSDISSDGEREANMPG
KW-Kp	DITETAQIAGKIFREHLWNSKKQLSSALLEIQGAQPSGKLKLCPHAHFHELKTKRADEIY
hCaspase12	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMRDLLENLGYSVVIKENLTAQEMET
KW-Ap	LNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET
KW-Bp	LNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET
KW-Cp	LNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ
KW-Dp	LNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ
KW-Ep	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMRDLLENLGYSVVIKENLTA
KW-Fp	
	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET
_	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET
KW-Hp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ
KW-Hp KW-Gp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ
KW-Hp KW-Gp KW-Ip	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET
KW-HP KW-GP KW-IP KW-JP	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME-
KW-Hp KW-Gp KW-Ip	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET
KW-HP KW-GP KW-IP KW-JP	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp KW-Ep	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp KW-Ep KW-Fp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp KW-Ep KW-Fp KW-Hp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp KW-Ep KW-Fp KW-Hp KW-Gp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp KW-Ep KW-Fp KW-Fp KW-Hp KW-Gp KW-Ip	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKESLTAQEMET PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEME- PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************
KW-Hp KW-Gp KW-Ip KW-Jp KW-Kp  hCaspase12 KW-Ap KW-Bp KW-Cp KW-Dp KW-Ep KW-Fp KW-Hp KW-Gp	PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQ PVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMETLNIRNKEFNYLHNRNGSELDLLGMXDLLENLGYSVVIKENLTAQEMET ***********************************



TGURE 2B	
hCaspase12	KDKPKVIIMQACRGNGAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFK
KW-Ap	KDKPKVIIMQACRGNGAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFK
KW-Bp	KDKPKVIIMQACRGNGAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFK
KW-Cp	GAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFK
KW-Dp	GAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFK
KW-Ep	KDKPKVIIMQACRG
KW-Fp	KDKPKVIIMQACGKDKPKVIIMQAC
KW-Hp	
KW-Gp	MVLGLFGSP
KW-Ip	KDKPKMVLGLFGSP
KW-Jp	
KW-Kp	KDKPKVIIMQACRGNGAGIVWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFK
hCaspase12	SSTPHNVSWRHETNGSVFISQIIYYFREYSWSHHLEEIFQKVQHSFETPNILTQLPTIER
KW-Ap	SSTPHNVSWRHETNGSVFISQIIYYFREYSWSHHLEEIFQKVQHSFETPNILTQLPTIER
KW-Bp	SSTPVQHSFETPNILTQLPTIER
KW-Cp	SSTPHNVSWRHETNGSVFISQIIYYFREYSWSHHLEEIFQKVQHSFETPNILTQLPTIER
KW-Dp	SSTPVQHSFETPNILTQLPTIER
KW-Ep	
KW-Fp	
KW-Hp	SSTPHNVSWRHETNGSVFISQIIYYFREYSWSHHLEEIFQKVQHSFETPNILTQLPTIER
KW-Gp	LTVEKPVQILMVGSCKVTSVMMLLQRLMWKRTSLLSNLPHHVQHSFETPNILTQLPTIER
KW-Ip	LTWKKPVQILMVGSCKVTSVMMLLQRFMWKRTSLLSNLPHHVQHSFETPNILTQLPTIER
KW-Ip KW-Jp	Elitate volume of the second o
KW-Kp	SSTPHNVSWRHETNGSVFISQIIYYFREYSWSHHLEEIFQKVQHSFETPNILTQLPTIER
· ·	
hCaspase12	LSMTRYFYLFPGN
KM VD	I CMTDVEVI EDCN

hCaspase12	LSMTRYFYLFPGN
KW-Ap	LSMTRYFYLFPGN
KW-Bp	LSMTRYFYLFPGN
KW-Cp	LSMTRYFYLFPGN
KW-Dp	LSMTRYFYLFPGN
KW-Ep	
KW-Fp	
KW-Hp	LSMTRYFYLFPGN
KW-Gp	LSMTRYFYLFPGN
KW-Ip	LSMTRYFYLFPGN
KW-Jp	
KW-Kp	LSMTRYFYLFPGN



# Human Caspase-12 compared to Mouse Caspase-12 with CARD domain, ICE-p20 domain, ICE-p10 domain and Active-site amino acids described.

373 419	fauto catalytic  GSVFISQIIYYFREYSWSHHLEEIFQKVQHSFETPNILTQLPTIERLSMTRYFYLFP GN GSLFISKLIDCFKKYCWCYHLEEIFRKVQHSFETPNILTQLPTIERVSMTRYFYLFP GN ************************************	hCaspase-12 mCaspase-12
KT	NGAGI VWFTTDSGKASADTHGRLLQGNICNDAVTKAHVEKDFIAFKSSTPHNVSWRHETN RYNGT IWVSTNKGIATADTDEERVLSCKWNNSITKAHVETDFIAFKSSTPHNISWKVGKT * : * : * * : * * : * * : * * : * * : * * * * * * * * * * * * * * * * * * * *	hCaspase-12 mCaspase-12
* ଜିଜି	DSTFLVFMSHGILNGICGTKHWDQEPDVLHDDTIFEIFNNRNCQSLKDKPKVIIMQACRG DSTFLVFMSHGILEGICGVKHRNKKPDVLHDDTIFKIFNNSNCRSLRNKPKILIMQACRG ************************************	hCaspase-12 mCaspase-12
*   \o   \o	IRNKEFNYLHNRNGSELDLLGMRDLLENLGYSVVIKENLTAQEMETALRQFAAHPEHQSS ICNKKFDYLFDRDNADTDILNMQELLENLGYSVVLKENLTAQEMETELMQFAGRPEHQSS * **: *: *: *: *: *: *: *: **********	hCaspase-12 mCaspase-12
HIZ	AGLAHESHLMLTAPHGLQSSEVQDTLKLCPRDQFCKIKTERAKEIYPVMEKEGRTRLALIN: * :*.:: *****: :* :: **: *********	hCaspase-12 mCaspase-12
Z ,	DITETAQIAGKIFREHLWNSKKQLS	hCaspase-12 mCaspase-12
·· (ED (C)	MADEKPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVD MAARRTHERDPIYKIKGLAKDMLDGVFDDLVEKNVLNGDELLKIGESASFILNKAENLVE ** .:.: : * * * ; ***: ***: ***: **: *:.::****:	hCaspase-12 mCaspase-12

#### FIGURE 3

AND THE PERSON NAMED ASSESSMENT OF THE PERSON NAMED ASSESSMENT	phononer and a second		
		AAN CORP.	:
SUBCLASS	CLASS	BA	:
:16'		OBADIJAJY	,



h_Caspase-3 h_Caspase-7	1 1 1 1 1 1	h_Caspase-7 h_Caspase-12 m_Caspase-12 h_Caspase-4 h_Caspase-13 h_Caspase-5 h_Caspase-1	h_Caspase-10 h_Caspase-10 h_Caspase-9 h_Caspase-2 h_Caspase-14 h_Caspase-14	h_Caspase-7 h_Caspase-12 m_Caspase-12 h_Caspase-14 h_Caspase-13 h_Caspase-5 h_Caspase-5 h_Caspase-1
MADDQGCIEEQGVEDSANEDSVDSK-SIKNLEPKIIHKKKKN	LFQRLQEKRMLEESNLSFLKELLFRINRLDLLITYLNTRKEEMERELQTPGRAQISAYRV VFEHLLAEDLLSEEDPFFLAELLYIIR-QKKLLQHLNCTKEEVERLLPTRQRVSLFRN ADRRLLRRCRLRLVEELQVDQLWDALLSSELFRPHMIEDIQRAGSGSRRDQARQ HPHHQETLKKNRVVLAKQLLLSELLEHLLEKDIITLEMRELIQAKVGSFSQNVE	KPSNGVLVHMVKLLIKTFLDGIFDDLMENNVLNTDEIHLIGKCL-KEVVSNAEN RTHERDPIYKIKGLAKDMLDGVFDDLVEKNVLNGDELLKIGESA-SFILNKAEN N-HRKKPLKVLESLGKDFLTGVLDNLVEQNVLNWKEEEKKKYYD-AKTEDKVRV K-HNKNPLKMLESLGKELISGLLDDFVEKNVLKLEEEEKKKIYD-AKLQDKARV N-HKKKTVKMLEYLGKDVLHGVFNYLAKHDVLTLKEEEEKKKYYD-AKIEDKALI KVLKEKRKLFIRSMGEGTINGLLDELLQTRVLNKEEMEKVKREN-ATVMDKTRA	KKLEKSS KKLEKSS RGRRILG	MADE  MAAR  MAEG  MAED  MAED

CONTRACTOR DESCRIPTION OF STREET	PACIFICACION CONTRACTOR AND ADDRESS OF THE PACIFIC AND ADDRESS OF THE PACIF	NAVOSLAVIUE	
SSAUDEUS	CLASS	УВ	
:l3'	E/2	GENOH-14	

FIGURE 4A



h_Caspase-3 h_Caspase-7 h_Caspase-12 m_Caspase-12 h_Caspase-1	h_Caspase-3 h_Caspase-7 h_Caspase-12 m_Caspase-12 m_Caspase-13 h_Caspase-5 h_Caspase-6 h_Caspase-6 h_Caspase-8 h_Caspase-10 h_Caspase-9 h_Caspase-9 h_Caspase-9 h_Caspase-1	FIGURE 4B h_Caspase-12 L m_Caspase-12 N h_Caspase-3 L h_Caspase-5 L h_Caspase-6 h_Caspase-6 h_Caspase-8 h_Caspase-10 L h_Caspase-9 h_Caspase-2 L h_Caspase-14
	EDDEMEVNAGLAHES HLMLTAPHGLQSSEVQDTLKLCPHEFTLKLCKERAGE	LVDDITETAQIAGKIFREHLWNSKKQLSSALLEIQGAQPSGK LVENFLEKTDMAGKIFAGHIANSQEQLSLQFSNDEDDGPQKICTPSSPSESKRKV MADSMQEKQRMAGQMLLQTFFNIDQISPNKKAHPNMEAGPPESGES LVDSIRQKNQEAGQVFVQTFLNIDCNSTSIKAPEETVAGPDESVGS LVDSLR-KNRVAHQMFTQTLLNMDQKITSVKPLLQIEAGPPESAES LIDSVIPKGAQACQICITYICEEDSYLAGTLGLSADQTSGNYLNMQDSQGVLSSFPA





FIGURE 4C	IYPIKERKDRTRLALIICN
h_Caspase-5 h_Caspase-1 h_Caspase-6 h_Caspase-8	
h_Caspase-9 h_Caspase-9 h_Caspase-9	APSLVSRGMQGASANTL
h_Caspase-14	MSNPRSLEEEKYDMSGARLA
r 2 3 3 3	EU
h Caspase-7	FDKVTGMGVRNGTDKDAEALFKCFRSLGFDVIVY-NDCSCAKMQDLLKKASEE
	KEFNYLHNRNGSELDLLGMRDLLENLGYSVVIKENLTAQEMETALRQFAAHP
m_Caspase-12	KKFDYLFDRDNADTDILNMQELLENLGYSVVLKENLTAQEMETELMQFAGRP
h Caspase-13	TEFDHMPPRNGAALDILGMKQLLEGLGYTVEVEEKLTARDMESVLWKFAARE
h_Caspase-5	TKFDHLPARNGAHYDIVGMKRLLQGLGYTVVDEKNLTARDMESVLRAFAARP
h_Caspase-1	EEFDSIPRRTGAEVDITGMTMLLQNLGYSVDVKKNLTASDMTTELEAFAHRP
h_Caspase-6	FFWHLTLPERRRTCADRDNLTRRFSDLGFEVKCFNDLKAEELLLKIHEVSTVS
h_Caspase-10	FTSLKDRQGTHKDAEILSHVFQWLGFTVHIHNNVTKVEMEMVLQKQKCNP
h_Caspase-9	FCRE-SGLRTRTGSNIDCEKLRRRFSSPHFMVEVKGDLTAKKMVLALLELAQQD
h_Caspase-2	FTGEKELEFRSGGDVDHSTLVTLFKLLGYDVHVLCDQTAQEMQEKLQNFAQLP
h_Caspase-14	L:ILCVTKAREGSEEDLDALEHMFRQLRFESTMKRDPTAEQFQEELEKFQQAI  *
n_caspase-3 h_Caspase-7	DHTNAACFACILLS#GEENVIYGKDGVTPIKDLTAHFRGDRCKTL
h_Caspase-12	GICGTKHW
m_Caspase-12	EHQSSDSTFLVFMSHGILEGICGVKHRNKKPDVLHDDTIFKIFNNSNCRSL
h_Caspase-4	HKSSDSTFLVLMSHGILE
h_Caspase-13	EHKSSDSTFLVFMSHGILDGICGTMHSEEEPDVLPYDTIFRTFNNRNCLSL



h\_Caspase-5

\_Caspase-1

HIEKDFIAFCSSTPDNVSWRHPTMGSVFIGRLIEHMQEYA-CSCDVEEIFR----KVRFS HEEKDFIAFCSSTPHNVSWRDRTRGSIFITELITCFQKYS-CCCHLMEIFR----KVQKS HVEKDFIAFCSSTPHNVSWRDIKKGSLFITRLITCFQKYA-WCCHLEEVFR----KVQQS HVEKDFIAFCSSTPHNVSWRDSTMGSIFITQLITCFQKYS-WCCHLEEVFR----KVQQS HVETDFIAFKSSTPHNISWKVGKTGSLFISKLIDCFKKYC-WCYHLEEIFR----KVQHS HVEKDFIAFKSSTPHNVSWRHETNGSVFISQIIYYFREYS-WSHHLEBIFQ----KVQHS VEA-DFLFAYSTVPGYYSWRSPGRGSWFVQALCSILEEHG-KDLEIMQILTRVNDRVARH VDA-DFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKQYA-DKLEFMHILTRVNRKVATE

h\_Caspase-13

\_Caspase-4

m\_Caspase-12

\_Caspase-12 \_Caspase-7

h\_Caspase-3

\*\*\*: ::\*\*\*

h_Caspase-14	h_Caspase-2	h_Caspase-10	h_Caspase-8	h_Caspase-6	h_Caspase-1	h_Caspase-5	h_Caspase-13	h_Caspase-4	m_Caspase-12	h_Caspase-12	h_Caspase-7	h_Caspase-3	α.	h_Caspase-14	h_Caspase-2	h_Caspase-9	h_Caspase-10	h_Caspase-8	h_Caspase-6	h_Caspase-1	h_Caspase-5	FIGURE 4D
RAKPKVYIIQACRGEQRDPGETVGGDEIVMVIKDSPQTI	QNKPKMFFIQACRGDETDRGVDQQDGKNHAGSPGCEESDAGKEKLPKMRL	AEKPKLFFIQACQGEEIQPSVSIEADALNPEQAPTSLQTESI	AGKPKVFFIQACQGDNYQKGIPVETDSEEQPYLEMDLSSPQTRYI	VGKPKIFIIQACRGNQHDVPVIPLDVVDNQTEKLDTNITEVDAASVYTL	KDKPKVIIIQACRGDSPGVVWFKDSVGVSGNLSLPTTEEFEDDAIKKA	KDKPKVIIVQACRGEKHGELWVRDSPASLAVISSQSSENLEADSVCKI	KDKPKVIIVQACRGANRGELWVSDSPPALADSFSQSSENLEEDAVYKT	KDKPKVIIVQACRGANRGELWVRDSPASLEVASSQSSENLEEDAVYKT	RNKPKILIMQACRGRYNGTIWVSTNKGIATADTDEERVLSCKWNNSITKA	KDKPKVIIMQAC_RGNGAGIVWFTTDSGKASADTHG-RLLQGNICNDAVTKA	LEKPKLFFIQACRGTELDDGIQADSGPINDTDANPRYKIP	TGKPKLFIIQACRGTELDCGIETDSGVDDDMAC	<b>←</b> -	 DSREDPVSCAFVVLMAHGREGFLKGEDGEMVKLENLFEALNNKNCQAL	AHRVTDSCIVALLS#GVEGAIYGVDGKLLQLQEVFQLFDNANCPSL	HGALDCCVVVILSHGCQASHLQFPGAVYGTDGCPVSVEKIVNIFNGTSCPSL	AHADGDCFVFCILT#GRFGAVYSSDEALIPIREIMSHFTALQCPRL	DHSNMDCFICCILS#GDKGIIYGTDGQEAPIYELTSQFTGLKCPSL	HADADCFVCVFLS#GEGNHIYAYDAKIEIQTLTGLFKGDKCHSL	$\texttt{EHKTSDSTFLVFMS} \textbf{\textit{H}} \texttt{GIREGICGKKHSEQVPDILQLNAIFNMLNTKNCPSL}$	EHKSSDSTFLVLMSHGILEGICGTAHKKKKPDVLLYDTIFQIFNNRNCLSL	

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#### FIGURE 4E

h\_Caspase-9 h\_Caspase-2 h\_Caspase-14 h\_Caspase-6 h\_Caspase-8 Caspase-10

PAEADFLLGLATVPGYVSFRHVEEGSWYIQSLCNHLKKLVPRMLKFLEKTM----EIRGR PDEADFLLGMATVNNCVSYRNPAEGTWYIQSLCQSLRERCPRGDDILTILT----EVNYE PAGADFLMCYSVAEGYYSHRETVNGSWYIQDLCEMLGKYG-SSLEFTELLTLVNRKVSQR PTYTDALHVYSTVEGYIAYRHDQKGSCFIQTLVDVFTKRK---GHILELLT----EVTRR PTRSDMICGYACLKGTAAMRNTKRGSWYIEALAQVFSERA-CDMHVADMLVKVN-ALIKD PTPSD1FVSYSTFPGFVSWRDPKSGSWYVETLDD1FEQWA-HSEDLQSLLL----RVANA

.\* ..

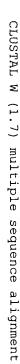
m\_Caspase-12 h\_Caspase-7 h\_Caspase-3 \_Caspase-14 \_Caspase-1 \_Caspase-10 \_Caspase-4 \_Caspase-9 \_Caspase-8 \_Caspase-6 \_Caspase-13 \_Caspase-12 Caspase-2 \_Caspase-5 VSV----KGIYKQMPGCFNFLRKK--LFFKTS---VSN--KDDKKNMGKQMPQPTFTLRKK--LVFPSD---RVDFCKDPSAIGKKQVPCFASMLTKK--LHFFPKSN-FEQ----PDGRAQMPTTERVTLTRCF--YLFPGH--FEV----PQAKAQMPTIERATLTRDF--YLFPGN--FET----PRAKAQMPTIERLSMTRYF--YLFPGN--FESQSDDPHFHEKKQIPCVVSMLTKE--LYFSQ----MAEAELVQEGKARKTNPEIQSTLRKR--LYLQ----REGYAPGTEFHRCKEMSEYCSTLCRH-LYLFPGHPPT KRTVWG-AKQISATSLPTAISAQTPRPPMRRWSSVS-FEK----PNVKAQMPTVERLSMTRYF--YLFPGN---FEV----PGELTQMPTIERVSMTRYF--YLFPGN---FET----PNILTQLPTIERLSMTRYF--YLFPGN---FESFSFDATFHAKKQIPCIVSMLTKE--LYFYH---

#### Legend:

- Active-site Residues
- Identical Residues
- Conservative Substitution

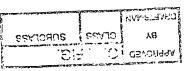
Allowable Substitution

Marieldic λB SSAJOEUS OB! OHEAV



#### FIGURE 5A

h_Caspase-4 h_Caspase-5 h_Caspase-13 h_Caspase-12	h_Caspase-4 h_Caspase-5 h_Caspase-13 h_Caspase-12 h_Caspase-1	h_Caspase-4 h_Caspase-5 h_Caspase-13 h_Caspase-12 h_Caspase-1	h_Caspase-4 h_Caspase-5 h_Caspase-13 h_Caspase-12 h_Caspase-1	h_Caspase-4 h_Caspase-5 h_Caspase-13 h_Caspase-12 h_Caspase-1
YSVDVEENLTARDMESALRAFATRPEHKSSDSTFLVLMSHGILEGICGTVHDEKKPDVLL YTVVDEKNLTARDMESVLRAFAARPEHKSSDSTFLVLMSHGILEGICGTAHKKKKPDVLL YTVEVEEKLTARDMESVLWKFAAREEHKSSDSTFLVFMSHGILDGICGTMHSEEEEPDVLP YSVVIKENLTAQEMETALRQFAAHPEHQSSDSTFLVFMSHGILNGICGTKHWDQEPDVLH	HEEFLRLCKERAEEIYPIKERNNRTRLALIICNTEFDHLPPRNGADFDITGMKELLEGLD REEFLRLCKKNHDEIYPIKKREDRRRLALIICNTKFDHLPARNGAHYDIVGMKRLLQGLG HEEFLKLCKERAGEIYPIKERKDRTRLALIICNTEFDHMPPRNGAALDILGMKQLLEGLG HAHFHELKTKRADEIYPVMEKERRTCLALNIRNKEFNYLHNRNGSELDLLGMRDLLENLG LEEAQRIWKQKSAEIYPIMDKSSRTRLALIICNEEFDSIPRRTGAEVDITGMTMLLQNLG	NPPESGESTDALKLCP N	GKDFLTGVLDNLVEQNVLNWKEEEKKKYYDAKTEDKVRVMADSMQEKQRMAGQMLLQTFF GKDVLHGVFNYLAKHDVLTLKEEEKKKYYDAKIEDKALILVDSLR-KNRVAHQMFTQTLL GKELISGLLDDFVEKNVLKLEEEEKKKIYDAKLQDKARVLVDSIRQKNQEAGQVFVQTFL IKTFLDGIFDDLMENNVLNTDEIHLIGKCLKFVVSNAENLVDDITETAQIAGKIFREHLW GEGTINGLLDELLQTRVLNKEEMEKVKRENATVMDKTRALIDSVIPKGAQACQICITYIC : *::: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : : : **:: : : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **:: : **::	MFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKSTSVKKDN-HKKKTVKMLEYLMAEGN-HKKKTVKMLEYL





h_Caspase-4 SFETPRAKAQMPTIERLSMTRYFYLFPGN h_Caspase-13 SFEKPNVKAQMPTIERATLTRDFYLFPGN h_Caspase-12 SFETPNILTQLPTIERLSMTRYFYLFPGN h_Caspase-1 SFEQPDGRAQMPTTERVTLTRCFYLFPGH *** * :*: ** ******:	h_Caspase-4 DAVYKTHVEKDFIAFCSSTPHNVSWRDSTMGSIFITQLITCFQKYSCCCHLMEIFRKVQQ h_Caspase-1 DAVYKTHVEKDFIAFCSSTPHNVSWRDRTRGSIFITELITCFQKYSCCCHLMEIFRKVQK h_Caspase-13 DAVYKTHVEKDFIAFCSSTPHNVSWRDIKKGSLFITRLITCFQKYAWCCHLEEVFRKVQQ h_Caspase-12 DAVTKAHVEKDFIAFKSSTPHNVSWRHETNGSVFISQIIYYFREYSWSHHLEEIFQKVQH h_Caspase-1 *:: * * * ****************************	h_Caspase-4  YDTIFQIFNNRNCLSLKDKPKVIIVQACRGANRGELWVR-DSPASLAVISSQSSE-NLEA h_Caspase-13  YDTIFRIFNNRNCL\$LKDKPKVIIVQACRGEKHGELWVR-DSPASLAVISSQSSE-NLEA  YDTIFRTFNNRNCL\$LKDKPKVIIVQACRGANRGELWVS-DSPPALADSFSQSSE-NLEE  YDTIFEIFNNRNCL\$LKDKPKVIIVQACRGANRGELWVS-DSPPALADSFSQSSE-NLEE  LCASPASE-12  LNAIFNMLNTKNCPSLKDKPKVIIIQACRGDSPGVVWFK-DSVGVSGNLSLPTTE-EFED  ::**.:** *****************************	FIGURE 5B YSVDVKKNLTASDMTTELEAFAHRPEHKTSDSTFLVFMSHGIREGICGKKHSEQVPDILQ h_Caspase-1 *:* :::*** : * **: **::******** :**** : **:*
	GSIFITQLITCFQKYSWCCHLEEVFRKVQQ RGSIFITELITCFQKYSCCCHLMEIFRKVQK KGSLFITRLITCFQKYAWCCHLEEVFRKVQQ RGSVFISQIIYYFREYSWSHHLEEIFQKVQH RGSVFIGRLIEHMQEYACSCDVEEIFRKVRF **:** .:* ::::: .: *:*:*:	BANRGELWVR-DSPASLEVASSQSSE-NLEE BEKHGELWVR-DSPASLAVISSQSSE-NLEE BANRGELWVS-DSPPALADSFSQSSE-NLEE BINGAGI_VWFTTDSGKASADTHGRLLQGNICN BDSPGVVWFK-DSVGVSGNLSLPTTE-EFED # *;*, **	3DSTFLVFMSHGIREGICGKKHSEQVPDILQ

CARD domain ICE-P20 Domain

ICE-P10 Domain

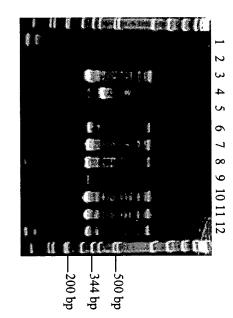
Active-site Residues

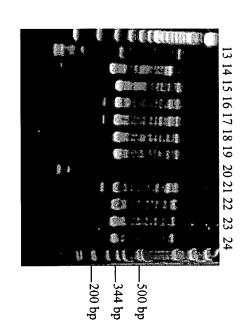
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brain 22. Fetal liver 23. Fat 24. Mammary gland 9. Muscle 10. Stomach 11. Testis 12. Placenta 13. Pituitary 14. Thyroid gland 15. Adrenal gland 16. Pancreas 17. Ovary 18. Uterus 19. Prostate 20. PBL 21. Fetal 1. Brain 2. Heart 3. Kidney 4. Spleen 5. Liver 6. Colon 7. Lung 8. Small Intestine

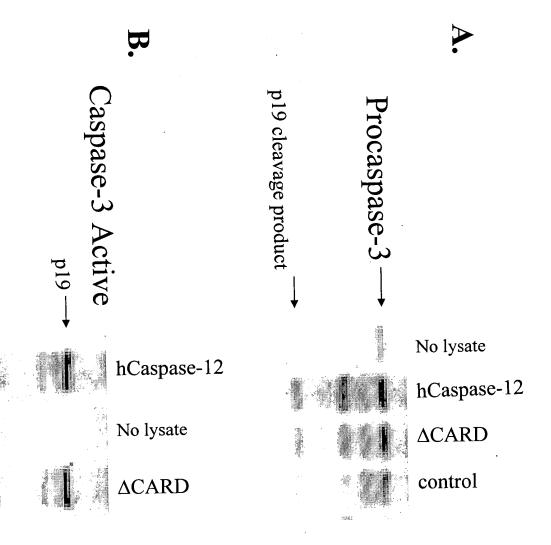


C.

FIGURE 7

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G B

Caspase-3

Caspase-8

Caspase-12 α-Fas vector vector RIK-5 RIK-5 hCaspase-12 hCaspase-12 ←—hCaspase-12 ←—RIK-5

#### A23187

Caspase-12 -  $\sim 49 \text{ kDa}$ 

Hours

## β-amyloid

0 40 Hours

## Tunicamycin

SH-EP

Caspase-12

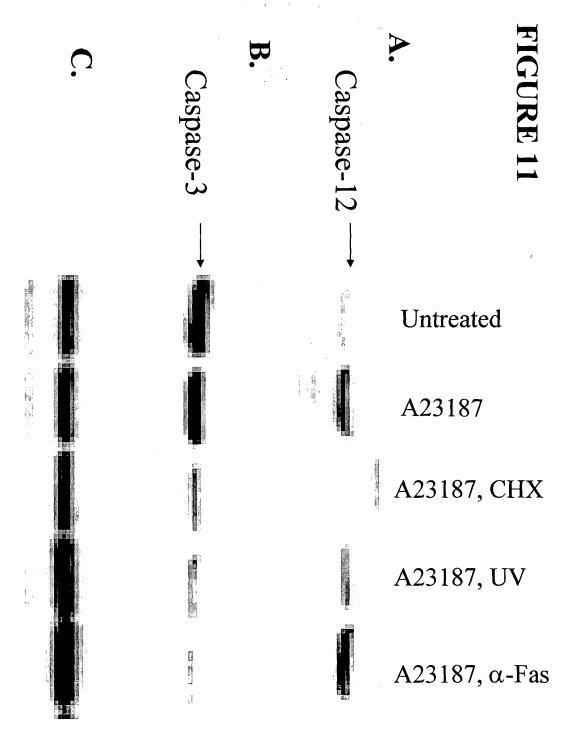
#### SH-EP

Hours 0

GRP 78 -









Caspase-12

B.

Caspase-3



# hCaspase-12

28 kDa –





 $9 \, kD_a$ 

18 kDa —

18 kDa –

28 kDa –

39 kDa –

49 kDa –



#### 9 kDa